

## SEQUENCE LISTING

&lt;110&gt; INCYTE PHARMACEUTICALS, INC.

LAL, Preeti

TANG, Y. Tom

YUE, Henry

HILLMAN, Jennifer L.

BANDMAN, Olga

CORLEY, Neil C.

GUEGLER, Karl J.

PATTERSON, Chandra

AZIMZAI, Yalda

BAUGHN, Mariah R.

&lt;120&gt; HUMAN CYTOSKELETON ASSOCIATED PROTEINS

&lt;130&gt; PF-0594 PCT

&lt;140&gt; To Be Assigned

&lt;141&gt; Herewith

&lt;150&gt; 09/156,470; unassigned; 60/131,321

&lt;151&gt; 1998-09-18; 1998-09-18; 1999-04-27

&lt;160&gt; 32

&lt;170&gt; PERL Program

&lt;210&gt; 1

&lt;211&gt; 1005

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1285395

&lt;400&gt; 1

Met	Thr	Thr	Glu	Val	Gly	Ser	Val	Ser	Glu	Val	Lys	Lys	Asp	Ser
1				5					10					15
Ser	Gln	Leu	Gly	Thr	Asp	Ala	Thr	Lys	Glu	Lys	Pro	Lys	Glu	Val
				20					25					30
Ala	Glu	Asn	Gln	Gln	Asn	Gln	Ser	Ser	Asp	Pro	Glu	Glu	Glu	Lys
				35					40					45
Gly	Ser	Gln	Pro	Pro	Pro	Ala	Ala	Glu	Ser	Gln	Ser	Ser	Leu	Arg
				50					55					60
Arg	Gln	Lys	Arg	Glu	Lys	Glu	Thr	Ser	Glu	Ser	Arg	Gly	Ile	Ser
				65					70					75
Arg	Phe	Ile	Pro	Pro	Trp	Leu	Lys	Lys	Gln	Lys	Ser	Tyr	Thr	Leu
				80					85					90
Val	Val	Ala	Lys	Asp	Gly	Gly	Asp	Lys	Lys	Glu	Pro	Thr	Gln	Ala
				95					100					105
Val	Val	Glu	Glu	Gln	Val	Leu	Asp	Lys	Glu	Glu	Pro	Leu	Pro	Glu
				110					115					120



	530		535		540
Arg Thr Ser Ser	Lys Arg Val Ser Arg	Ser Leu Asp Gly Ala	Pro		
	545		550		555
Ile Gly Val Met	Asp Gln Ser Leu Met	Lys Asp Phe Pro Gly	Ala		
	560		565		570
Ala Gly Glu Ile	Ser Ala Tyr Gly Pro	Gly Leu Val Ser Ile	Ala		
	575		580		585
Val Val Gln Asp	Gly Asp Gly Arg Arg	Glu Val Arg Ser Pro	Thr		
	590		595		600
Lys Ala Pro His	Leu Gln Leu Ile Glu	Gly Lys Lys Asn Ser	Leu		
	605		610		615
Arg Val Glu Gly	Asp Asn Ile Tyr Val	Arg His Ser Asn Leu	Met		
	620		625		630
Leu Glu Glu Leu	Asp Lys Ala Gln Glu	Asp Ile Leu Lys His	Gln		
	635		640		645
Ala Ser Ile Ser	Glu Leu Lys Arg Asn	Phe Met Glu Ser Thr	Pro		
	650		655		660
Glu Pro Arg Pro	Asn Glu Trp Glu Lys	Arg Arg Ile Thr Pro	Leu		
	665		670		675
Ser Leu Gln Thr	Gln Gly Ser Ser His	Glu Thr Leu Asn Ile	Val		
	680		685		690
Glu Glu Lys Lys	Arg Ala Glu Val Gly	Lys Asp Glu Arg Val	Ile		
	695		700		705
Thr Glu Glu Met	Asn Gly Lys Glu Ile	Ser Pro Gly Ser Gly	Pro		
	710		715		720
Gly Glu Ile Arg	Lys Val Glu Pro Val	Thr Gln Lys Asp Ser	Thr		
	725		730		735
Ser Leu Ser Ser	Glu Ser Ser Ser Ser	Ser Ser Glu Ser Glu	Glu		
	740		745		750
Glu Asp Val Gly	Glu Tyr Arg Pro His	His Arg Val Thr Glu	Gly		
	755		760		765
Thr Ile Arg Glu	Glu Gln Glu Tyr Glu	Glu Glu Val Glu Glu	Glu		
	770		775		780
Pro Arg Pro Ala	Ala Lys Val Val Glu	Arg Glu Glu Ala Val	Pro		
	785		790		795
Glu Ala Ser Pro	Val Thr Gln Ala Gly	Ala Ser Val Ile Thr	Val		
	800		805		810
Glu Thr Val Ile	Gln Glu Asn Val Gly	Ala Gln Lys Ile Pro	Gly		
	815		820		825
Glu Lys Ser Val	His Glu Gly Ala Leu	Lys Gln Asp Met Gly	Glu		
	830		835		840
Glu Ala Glu Glu	Glu Pro Gln Lys Val	Asn Gly Glu Val Ser	His		
	845		850		855
Val Asp Ile Asp	Val Leu Pro Gln Ile	Ile Cys Cys Ser Glu	Pro		
	860		865		870
Pro Val Val Lys	Thr Glu Met Val Thr	Ile Ser Asp Ala Ser	Gln		
	875		880		885
Arg Thr Glu Ile	Ser Thr Lys Glu Val	Pro Ile Val Gln Thr	Glu		
	890		895		900
Thr Lys Thr Ile	Thr Tyr Glu Ser Pro	Gln Ile Asp Gly Gly	Ala		
	905		910		915
Gly Gly Asp Ser	Gly Thr Leu Leu Thr	Ala Gln Thr Ile Thr	Ser		
	920		925		930
Glu Ser Val Ser	Thr Thr Thr Thr Thr	His Ile Thr Lys Thr	Val		
	935		940		945

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Lys Gly Gly Ile Ser Glu Thr Arg Ile Glu Lys Arg Ile Val Ile
          950          955          960
Thr Gly Asp Gly Asp Ile Asp His Asp Gln Ala Leu Ala Gln Ala
          965          970          975
Ile Arg Glu Ala Arg Glu Gln His Pro Asp Met Ser Val Thr Arg
          980          985          990
Val Val Val His Lys Glu Thr Glu Leu Ala Glu Glu Gly Glu Asp
          995          1000          1005

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<210> 2
<211> 1045
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1320252

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<400> 2
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Ala Pro Glu Asn Ser Gly Ile Ser Thr Leu Glu Arg Gly Gln Lys
          20          25          30
Pro Pro Pro Thr Pro Ser Gly Lys Leu Val Ser Ile Lys Ile Gln
          35          40          45
Met Leu Asp Asp Thr Gln Glu Ala Phe Glu Val Pro Gln Arg Ala
          50          55          60
Pro Gly Lys Val Leu Leu Asp Ala Val Cys Asn His Leu Asn Leu
          65          70          75
Val Glu Gly Asp Tyr Phe Gly Leu Glu Phe Pro Asp His Lys Lys
          80          85          90
Ile Thr Val Trp Leu Asp Leu Leu Lys Pro Ile Val Lys Gln Ile
          95          100          105
Arg Arg Pro Lys His Val Val Val Lys Phe Val Val Lys Phe Phe
          110          115          120
Pro Pro Asp His Thr Gln Leu Gln Glu Glu Leu Thr Arg Tyr Leu
          125          130          135
Phe Ala Leu Gln Val Lys Gln Asp Leu Ala Gln Gly Arg Leu Thr
          140          145          150
Cys Asn Asp Thr Ser Ala Ala Leu Leu Ile Ser His Ile Val Gln
          155          160          165
Ser Glu Ile Gly Asp Phe Asp Glu Ala Leu Asp Arg Glu His Leu
          170          175          180
Ala Lys Asn Lys Tyr Ile Pro Gln Gln Asp Ala Leu Glu Asp Lys
          185          190          195
Ile Val Glu Phe His His Asn His Ile Gly Gln Thr Pro Ala Glu
          200          205          210
Ser Asp Phe Gln Leu Leu Glu Ile Ala Arg Arg Leu Glu Met Tyr
          215          220          225
Gly Ile Arg Leu His Pro Ala Lys Asp Arg Glu Gly Thr Lys Ile
          230          235          240
Asn Leu Ala Val Ala Asn Thr Gly Ile Leu Val Phe Gln Gly Phe
          245          250          255
Thr Lys Ile Asn Ala Phe Asn Trp Ala Lys Val Arg Lys Leu Ser

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	260		265		270
Phe Lys Arg Lys Arg Phe Phe Ile Lys		Leu Arg Pro Asp Ala Asn			
	275		280		285
Ser Ala Tyr Gln Asp Thr Leu Glu Phe		Leu Met Ala Ser Arg Asp			
	290		295		300
Phe Cys Lys Ser Phe Trp Lys Ile Cys		Val Glu His His Ala Phe			
	305		310		315
Phe Arg Leu Phe Glu Glu Pro Lys Pro		Lys Pro Lys Pro Val Leu			
	320		325		330
Phe Ser Arg Gly Ser Ser Phe Arg Phe		Ser Gly Arg Thr Gln Lys			
	335		340		345
Gln Val Leu Asp Tyr Val Lys Glu Gly		Gly His Lys Lys Val Gln			
	350		355		360
Phe Glu Arg Lys His Ser Lys Ile His		Ser Ile Arg Ser Leu Ala			
	365		370		375
Ser Gln Pro Thr Glu Leu Asn Ser Glu		Val Leu Glu Gln Ser Gln			
	380		385		390
Gln Ser Thr Ser Glu Thr Phe Gly Glu		Gly Ala Glu Ser Pro Gly			
	395		400		405
Gly Gln Ser Cys Arg Arg Gly Lys Glu		Pro Lys Val Ser Ala Gly			
	410		415		420
Glu Pro Gly Ser His Pro Ser Pro Ala		Pro Arg Arg Ser Pro Ala			
	425		430		435
Gly Asn Lys Gln Ala Asp Gly Ala Ala		Ser Ala Pro Thr Glu Glu			
	440		445		450
Glu Glu Glu Val Val Lys Asp Arg Thr		Gln Gln Ser Lys Pro Gln			
	455		460		465
Pro Pro Gln Pro Ser Thr Gly Ser Leu		Thr Gly Ser Pro His Leu			
	470		475		480
Ser Glu Leu Ser Val Asn Ser Gln Gly		Gly Val Ala Pro Ala Asn			
	485		490		495
Val Thr Leu Ser Pro Asn Leu Ser Pro		Asp Thr Lys Gln Ala Ser			
	500		505		510
Pro Leu Ile Ser Pro Leu Leu Asn Asp		Gln Ala Cys Pro Arg Thr			
	515		520		525
Asp Asp Glu Asp Glu Gly Arg Arg Lys		Arg Phe Pro Thr Asp Lys			
	530		535		540
Ala Tyr Phe Ile Ala Lys Glu Val Ser		Thr Thr Glu Arg Thr Tyr			
	545		550		555
Leu Lys Asp Leu Glu Val Ile Thr Ser		Trp Phe Gln Ser Thr Val			
	560		565		570
Ser Lys Glu Asp Ala Met Pro Glu Ala		Leu Lys Ser Leu Ile Phe			
	575		580		585
Pro Asn Phe Glu Pro Leu His Lys Phe		His Thr Asn Phe Leu Lys			
	590		595		600
Glu Ile Glu Gln Arg Leu Ala Leu Trp		Glu Gly Arg Ser Asn Ala			
	605		610		615
Gln Ile Arg Asp Tyr Gln Arg Ile Gly		Asp Val Met Leu Lys Asn			
	620		625		630
Ile Gln Gly Met Lys His Leu Ala Ala		His Leu Trp Lys His Ser			
	635		640		645
Glu Ala Leu Glu Ala Leu Glu Asn Gly		Ile Lys Ser Ser Arg Arg			
	650		655		660
Leu Glu Asn Phe Cys Arg Asp Phe Glu		Leu Gln Lys Val Cys Tyr			
	665		670		675

Leu Pro Leu Asn Thr Phe Leu Leu Arg Pro Leu His Arg Leu Met	680	685	690
His Tyr Lys Gln Val Leu Glu Arg Leu Cys Lys His His Pro Pro	695	700	705
Ser His Ala Asp Phe Arg Asp Cys Arg Ala Ala Leu Ala Glu Ile	710	715	720
Thr Glu Met Val Ala Gln Leu His Gly Thr Met Ile Lys Met Glu	725	730	735
Asn Phe Gln Lys Leu His Glu Leu Lys Lys Asp Leu Ile Gly Ile	740	745	750
Asp Asn Leu Val Val Pro Gly Arg Glu Phe Ile Arg Leu Gly Ser	755	760	765
Leu Ser Lys Leu Ser Gly Lys Gly Leu Gln Gln Arg Met Phe Phe	770	775	780
Leu Phe Asn Asp Val Leu Leu Tyr Thr Ser Arg Gly Leu Thr Ala	785	790	795
Ser Asn Gln Phe Lys Val His Gly Gln Leu Pro Leu Tyr Gly Met	800	805	810
Thr Ile Glu Glu Ser Glu Asp Glu Trp Gly Val Pro His Cys Leu	815	820	825
Thr Leu Arg Gly Gln Arg Gln Ser Ile Ile Val Ala Ala Ser Ser	830	835	840
Arg Ser Glu Met Glu Lys Trp Val Glu Asp Ile Gln Met Ala Ile	845	850	855
Asp Leu Ala Glu Lys Ser Ser Ser Pro Ala Pro Glu Phe Leu Ala	860	865	870
Ser Ser Pro Pro Asp Asn Lys Ser Pro Asp Glu Ala Thr Ala Ala	875	880	885
Asp Gln Glu Ser Glu Asp Asp Leu Ser Ala Ser Arg Thr Ser Leu	890	895	900
Glu Arg Gln Ala Pro His Arg Gly Asn Thr Met Val His Val Cys	905	910	915
Trp His Arg Asn Thr Ser Val Ser Met Val Asp Phe Ser Ile Ala	920	925	930
Val Glu Asn Gln Leu Ser Gly Asn Leu Leu Arg Lys Phe Lys Asn	935	940	945
Ser Asn Gly Trp Gln Lys Leu Trp Val Val Phe Thr Asn Phe Cys	950	955	960
Leu Phe Phe Tyr Lys Ser His Gln Asp Asn His Pro Leu Ala Ser	965	970	975
Leu Pro Leu Leu Gly Tyr Ser Leu Thr Ile Pro Ser Glu Ser Glu	980	985	990
Asn Ile Gln Lys Asp Tyr Val Phe Lys Leu His Phe Lys Ser His	995	1000	1005
Val Tyr Tyr Phe Arg Ala Glu Ser Glu Tyr Thr Phe Glu Arg Trp	1010	1015	1020
Met Glu Val Ile Arg Ser Ala Thr Ser Ser Ala Ser Arg Pro His	1025	1030	1035
Val Leu Ser His Lys Glu Ser Leu Val Tyr	1040	1045	

&lt;210&gt; 3

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1259001

&lt;400&gt; 3

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Met Cys Phe Gln Ala Pro Glu Glu Leu Val Leu His Leu Ala Val
 1              5              10              15
Lys Val Ala Asn Gln Ala Ser Leu Pro Leu Val Asp Phe Ile Ile
              20              25              30
Gln Asn Gly Gly His Leu Asp Ala Lys Ala Ala Asp Gly Asn Thr
              35              40              45
Ala Leu His Tyr Ala Ala Leu Tyr Asn Gln Pro Asp Cys Leu Lys
              50              55              60
Leu Leu Leu Lys Gly Arg Ala Leu Val Gly Thr Val Asn Glu Ala
              65              70              75
Gly Glu Thr Ala Leu Asp Ile Ala Arg Lys Lys His His Lys Glu
              80              85              90
Cys Glu Glu Leu Leu Glu Gln Ala Gln Ala Gly Thr Phe Ala Phe
              95              100             105
Pro Leu His Val Asp Tyr Ser Trp Val Ile Ser Thr Glu Pro Gly
              110             115             120
Ser Asp Ser Glu Glu Asp Glu Glu Glu Lys Arg Cys Leu Leu Lys
              125             130             135
Leu Pro Ala Gln Ala His Trp Ala Ser Gly Arg Leu Asp Ile Ser
              140             145             150
Asn Lys Thr Tyr Glu Thr Val Ala Ser Leu Gly Ala Ala Thr Pro
              155             160             165
Gln Gly Glu Ser Glu Asp Cys Pro Pro Pro Leu Pro Val Lys Asn
              170             175             180
Ser Ser Arg Thr Leu Val Gln Gly Cys Ala Arg His Ala Ser Gly
              185             190             195
Asp Arg Ser Glu Val Ser Ser Leu Ser Ser Glu Ala Pro Glu Thr
              200             205             210
Pro Glu Ser Leu Gly Ser Pro Ala Ser Ser Ser Ser Leu Met Ser
              215             220             225
Pro Leu Glu Pro Gly Asp Pro Ser Gln Ala Pro Pro Asn Ser Glu
              230             235             240
Glu Gly Leu Arg Glu Pro Pro Gly Thr Ser Arg Pro Ser Leu Thr
              245             250             255
Ser Gly Thr Thr Pro Ser Glu Met Tyr Leu Pro Val Arg Phe Ser
              260             265             270
Ser Glu Ser Thr Arg Ser Tyr Arg Arg Gly Ala Arg Ser Pro Glu
              275             280             285
Asp Gly Pro Ser Ala Arg Gln Pro Leu Pro Arg Arg Asn Val Pro
              290             295             300
Val Gly Ile Thr Glu Gly Asp Gly Ser Arg Thr Gly Ser Leu Pro
              305             310             315
Ala Ser Ser Val Gln Leu Leu Gln Asp
              320

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<210> 4  
 <211> 385  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1627027

<400> 4  
 Met Ser Val Ser Arg Thr Met Glu Asp Ser Cys Glu Leu Asp Leu  
 1 5 10 15  
 Val Tyr Val Thr Glu Arg Ile Ile Ala Val Ser Phe Pro Ser Thr  
 20 25 30  
 Ala Asn Glu Glu Asn Phe Arg Ser Asn Leu Arg Glu Val Ala Gln  
 35 40 45  
 Met Leu Lys Ser Lys His Gly Gly Asn Tyr Leu Leu Phe Asn Leu  
 50 55 60  
 Ser Glu Arg Arg Pro Asp Ile Thr Lys Leu His Ala Lys Val Leu  
 65 70 75  
 Glu Phe Gly Trp Pro Asp Leu His Thr Pro Ala Leu Glu Lys Ile  
 80 85 90  
 Cys Ser Ile Cys Lys Ala Met Asp Thr Trp Leu Asn Ala Asp Pro  
 95 100 105  
 His Asn Val Val Val Leu His Asn Lys Gly Asn Arg Gly Arg Ile  
 110 115 120  
 Gly Val Val Ile Ala Ala Tyr Met His Tyr Ser Asn Ile Ser Ala  
 125 130 135  
 Ser Ala Asp Gln Ala Leu Asp Arg Phe Ala Met Lys Arg Phe Tyr  
 140 145 150  
 Glu Asp Lys Ile Val Pro Ile Gly Gln Pro Ser Gln Arg Arg Tyr  
 155 160 165  
 Val His Tyr Phe Ser Gly Leu Leu Ser Gly Ser Ile Lys Met Asn  
 170 175 180  
 Asn Lys Pro Leu Phe Leu His His Val Ile Met His Gly Ile Pro  
 185 190 195  
 Asn Phe Glu Ser Lys Gly Gly Cys Arg Pro Phe Leu Arg Ile Tyr  
 200 205 210  
 Gln Ala Met Gln Pro Val Tyr Thr Ser Gly Ile Tyr Asn Ile Pro  
 215 220 225  
 Gly Asp Ser Gln Thr Ser Val Cys Ile Thr Ile Glu Pro Gly Leu  
 230 235 240  
 Leu Leu Lys Gly Asp Ile Leu Leu Lys Cys Tyr His Lys Lys Phe  
 245 250 255  
 Arg Ser Pro Ala Arg Asp Val Ile Phe Arg Val Gln Phe His Thr  
 260 265 270  
 Cys Ala Ile His Asp Leu Gly Val Val Phe Gly Lys Glu Asp Leu  
 275 280 285  
 Asp Asp Ala Phe Lys Asp Asp Arg Phe Pro Glu Tyr Gly Lys Val  
 290 295 300  
 Glu Phe Val Phe Ser Tyr Gly Pro Glu Lys Ile Gln Gly Met Glu  
 305 310 315  
 His Leu Glu Asn Gly Pro Ser Val Ser Val Asp Tyr Asn Thr Ser  
 320 325 330  
 Asp Pro Leu Ile Arg Trp Asp Ser Tyr Asp Asn Phe Ser Gly His



	335	340	345
Arg Asp Asp Gly Met Glu Asp Gly Asn Lys Gln Asn Thr Asn Ser			
	350	355	360
Gln Ser Ile Gly Ser Ile Ser Gly Gly Leu Glu Asp Gln Tyr Thr			
	365	370	375
Trp Pro Asp Thr His Trp Pro Ser Gln Ser			
	380	385	

<210> 5  
 <211> 364  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1905315

<400> 5

Met Ser Ser Ala Pro Arg Ser Pro Thr Pro Arg Pro Arg Arg Met		
1	5	10 15
Lys Lys Asp Glu Ser Phe Leu Gly Lys Leu Gly Gly Thr Leu Ala		
	20	25 30
Arg Lys Arg Arg Ala Arg Glu Val Ser Asp Leu Gln Glu Glu Gly		
	35	40 45
Lys Asn Ala Ile Asn Ser Pro Met Ser Pro Ala Leu Ala Asp Val		
	50	55 60
His Pro Glu Asp Thr Gln Leu Glu Glu Asn Glu Glu Arg Thr Met		
	65	70 75
Ile Asp Pro Thr Ser Lys Glu Asp Pro Lys Phe Lys Glu Leu Val		
	80	85 90
Lys Val Leu Leu Asp Trp Ile Asn Asp Val Leu Val Glu Glu Arg		
	95	100 105
Ile Ile Val Lys Gln Leu Glu Glu Asp Leu Tyr Asp Gly Gln Val		
	110	115 120
Leu Gln Lys Leu Leu Glu Lys Leu Ala Gly Cys Lys Leu Asn Val		
	125	130 135
Ala Glu Val Thr Gln Ser Glu Ile Gly Gln Lys Gln Lys Leu Gln		
	140	145 150
Thr Val Leu Glu Ala Val His Asp Leu Leu Arg Pro Arg Gly Trp		
	155	160 165
Ala Leu Arg Trp Ser Val Asp Ser Ile His Gly Lys Asn Leu Val		
	170	175 180
Ala Ile Leu His Leu Leu Val Ser Leu Ala Met His Phe Arg Ala		
	185	190 195
Pro Ile Arg Leu Pro Glu His Val Thr Val Gln Val Val Val Val		
	200	205 210
Arg Lys Arg Glu Gly Leu Leu His Ser Ser His Ile Ser Glu Glu		
	215	220 225
Leu Thr Thr Thr Thr Glu Met Met Met Gly Arg Phe Glu Arg Asp		
	230	235 240
Ala Phe Asp Thr Leu Phe Asp His Ala Pro Asp Lys Leu Ser Val		
	245	250 255
Val Lys Lys Ser Leu Ile Thr Phe Val Asn Lys His Leu Asn Lys		
	260	265 270

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Leu Asn Leu Glu Val Thr Glu Leu Glu Thr Gln Phe Ala Asp Gly
      275                      280
Val Tyr Leu Val Leu Leu Met Gly Leu Leu Glu Asp Tyr Phe Val
      290                      295
Pro Leu His His Phe Tyr Leu Thr Pro Glu Ser Phe Asp Gln Lys
      305                      310
Val His Asn Val Ser Phe Ala Phe Glu Leu Met Leu Asp Gly Gly
      320                      325
Leu Lys Lys Pro Lys Ala Arg Pro Glu Asp Val Val Asn Leu Asp
      335                      340
Leu Lys Ser Thr Leu Arg Val Leu Tyr Asn Leu Phe Thr Lys Tyr
      350                      355
Lys Asn Val Glu

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&lt;210&gt; 6

&lt;211&gt; 395

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1997789

&lt;400&gt; 6

```

Met Ser Glu Gln Ser Ile Cys Gln Ala Arg Ala Ser Val Met Val
  1      5      10
Tyr Asp Asp Thr Ser Lys Lys Trp Val Pro Ile Lys Pro Gly Gln
      20      25      30
Gln Gly Phe Ser Arg Ile Asn Ile Tyr His Asn Thr Ala Ser Asn
      35      40      45
Thr Phe Arg Val Val Gly Val Lys Leu Gln Asp Gln Gln Val Val
      50      55      60
Ile Asn Tyr Ser Ile Val Lys Gly Leu Lys Tyr Asn Gln Ala Thr
      65      70      75
Pro Thr Phe His Gln Trp Arg Asp Ala Arg Gln Val Tyr Gly Leu
      80      85      90
Asn Phe Ala Ser Lys Glu Glu Ala Thr Thr Phe Ser Asn Ala Met
      95     100     105
Leu Phe Ala Leu Asn Ile Met Asn Ser Gln Glu Gly Gly Pro Ser
     110     115     120
Ser Gln Arg Gln Val Gln Asn Gly Pro Ser Pro Asp Glu Met Asp
     125     130     135
Ile Gln Arg Arg Gln Val Met Glu Gln His Gln Gln Gln Arg Gln
     140     145     150
Glu Ser Leu Glu Arg Arg Thr Ser Ala Thr Gly Pro Ile Leu Pro
     155     160     165
Pro Gly His Pro Ser Ser Ala Ala Ser Ala Pro Val Ser Cys Ser
     170     175     180
Gly Pro Pro Pro Pro Pro Pro Pro Leu Val Pro Pro Pro Pro Thr
     185     190     195
Gly Ala Thr Pro Pro Pro Pro Pro Pro Leu Pro Ala Gly Gly Ala
     200     205     210
Gln Gly Ser Ser His Asp Glu Ser Ser Met Ser Gly Leu Ala Ala
     215     220     225

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```

Ala Ile Ala Gly Ala Lys Leu Arg Arg Val Gln Arg Pro Glu Asp
                230                235                240
Ala Ser Gly Gly Ser Ser Pro Ser Gly Thr Ser Lys Ser Asp Ala
                245                250                255
Asn Arg Ala Ser Ser Gly Gly Gly Gly Gly Gly Leu Met Glu Glu
                260                265                270
Met Asn Lys Leu Leu Ala Lys Arg Arg Lys Ala Ala Ser Gln Ser
                275                280                285
Asp Lys Pro Ala Glu Lys Lys Glu Asp Glu Ser Gln Met Glu Asp
                290                295                300
Pro Ser Thr Ser Pro Ser Pro Gly Thr Arg Ala Ala Ser Gln Pro
                305                310                315
Pro Asn Ser Ser Glu Ala Gly Arg Lys Pro Trp Glu Arg Ser Asn
                320                325                330
Ser Val Glu Lys Pro Val Ser Ser Ile Leu Ser Arg Met Lys Pro
                335                340                345
Ala Gly Ser Val Asn Asp Met Ala Leu Asp Ala Phe Asp Leu Asp
                350                355                360
Arg Met Lys Gln Glu Ile Leu Glu Glu Val Val Arg Glu Leu His
                365                370                375
Lys Val Lys Glu Glu Ile Ile Asp Ala Ile Arg Gln Glu Leu Ser
                380                385                390
Gly Ile Ser Thr Thr
                395

```

&lt;210&gt; 7

&lt;211&gt; 523

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2303465

&lt;400&gt; 7

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Met Ala Ala Val Gly Arg Val Gly Ser Phe Gly Ser Ser Pro Pro
    1         5         10
Gly Leu Ser Ser Thr Tyr Thr Gly Gly Pro Leu Gly Asn Glu Ile
    20        25        30
Ala Ser Gly Asn Gly Gly Ala Ala Ala Gly Asp Asp Glu Asp Gly
    35        40        45
Gln Asn Leu Trp Ser Cys Ile Leu Ser Glu Val Ser Thr Arg Ser
    50        55        60
Arg Ser Lys Leu Pro Ala Gly Lys Asn Val Leu Leu Leu Gly Glu
    65        70        75
Asp Gly Ala Gly Lys Thr Ser Leu Ile Arg Lys Ile Gln Gly Ile
    80        85        90
Glu Glu Tyr Lys Lys Gly Arg Gly Leu Glu Tyr Leu Tyr Leu Asn
    95       100       105
Val His Asp Glu Asp Arg Asp Asp Gln Thr Arg Cys Asn Val Trp
   110       115       120
Ile Leu Asp Gly Asp Leu Tyr His Lys Gly Leu Leu Lys Phe Ser
   125       130       135
Leu Asp Ala Val Ser Leu Lys Asp Thr Leu Val Met Leu Val Val

```

	140		145		150
Asp Met Ser Lys	Pro Trp Thr Ala Leu	Asp Ser Leu Gln Lys	Trp		
	155		160		165
Ala Ser Val Val	Arg Glu His Val Asp	Lys Leu Lys Ile Pro	Pro		
	170		175		180
Glu Glu Met Lys	Gln Met Glu Gln Lys	Leu Ile Arg Asp Phe	Gln		
	185		190		195
Glu Tyr Val Glu	Pro Gly Glu Asp Phe	Pro Ala Ser Pro Gln	Arg		
	200		205		210
Arg Asn Thr Ala	Ser Gln Glu Asp Lys	Asp Asp Ser Val Val	Leu		
	215		220		225
Pro Leu Gly Ala	Asp Thr Leu Thr His	Asn Leu Gly Ile Pro	Val		
	230		235		240
Leu Val Val Cys	Thr Lys Cys Asp Ala	Ile Ser Val Leu Glu	Lys		
	245		250		255
Glu His Asp Tyr	Arg Asp Glu His Phe	Asp Phe Ile Gln Ser	His		
	260		265		270
Ile Arg Lys Phe	Cys Leu Gln Tyr Gly	Ala Ala Leu Ile Tyr	Thr		
	275		280		285
Ser Val Lys Glu	Asn Lys Asn Ile Asp	Leu Val Tyr Lys Tyr	Ile		
	290		295		300
Val Gln Lys Leu	Tyr Gly Phe Pro Tyr	Lys Ile Pro Ala Val	Val		
	305		310		315
Val Glu Lys Asp	Ala Val Phe Ile Pro	Ala Gly Trp Asp Asn	Asp		
	320		325		330
Lys Lys Ile Gly	Ile Leu His Glu Asn	Phe Gln Thr Leu Lys	Ala		
	335		340		345
Glu Asp Asn Phe	Glu Asp Ile Ile Thr	Lys Pro Pro Val Arg	Lys		
	350		355		360
Phe Val His Glu	Lys Glu Ile Met Ala	Glu Asp Asp Gln Val	Phe		
	365		370		375
Leu Met Lys Leu	Gln Ser Leu Leu Ala	Lys Gln Pro Pro Thr	Ala		
	380		385		390
Ala Gly Arg Pro	Val Asp Ala Ser Pro	Arg Val Pro Gly Gly	Ser		
	395		400		405
Pro Arg Thr Pro	Asn Arg Ser Val Ser	Ser Asn Val Ala Ser	Val		
	410		415		420
Ser Pro Ile Pro	Ala Gly Ser Lys Lys	Ile Asp Pro Asn Met	Lys		
	425		430		435
Ala Gly Ala Thr	Ser Glu Gly Val Leu	Ala Asn Phe Phe Asn	Ser		
	440		445		450
Leu Leu Ser Lys	Lys Thr Gly Ser Pro	Gly Gly Pro Gly Val	Ser		
	455		460		465
Gly Gly Ser Pro	Ala Gly Gly Ala Gly	Gly Gly Ser Ser Gly	Leu		
	470		475		480
Pro Pro Ser Thr	Lys Lys Ser Gly Gln	Lys Pro Val Leu Asp	Val		
	485		490		495
His Ala Glu Leu	Asp Arg Ile Thr Arg	Lys Pro Val Thr Val	Ser		
	500		505		510
Pro Thr Thr Pro	Thr Ser Pro Thr Glu	Gly Glu Ala Ser			
	515		520		

<210> 8  
 <211> 348  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2363178

<400> 8  
 Met Ala Lys Leu Leu Gln Pro Pro Pro Lys Phe Leu Pro Ser Glu  
 1 5 10 15  
 Trp His Ile Ala Asn Lys Asn Gln Tyr His Arg Ala Asp Ala Gln  
 20 25 30  
 Arg Ser Arg Ser Glu Arg Leu Val Ala Glu Ser Gln Arg Leu Val  
 35 40 45  
 Asp Glu Ile Glu Lys Thr Thr Arg Lys Ser Gln Ser Asp Val Asn  
 50 55 60  
 Lys Lys Leu Glu Gln Arg Leu Glu Glu Val Gln Phe Trp Lys Lys  
 65 70 75  
 Glu Leu Asp Asp Lys Leu Glu Gln Leu Val Asn Val Thr Asp Asp  
 80 85 90  
 Leu Leu Ile Tyr Lys Ile Arg Leu Glu Lys Ala Leu Glu Thr Leu  
 95 100 105  
 Lys Glu Pro Leu His Ile Thr Glu Thr Cys Leu Ala Tyr Arg Glu  
 110 115 120  
 Lys Arg Ile Gly Ile Asp Leu Val His Asp Thr Val Glu His Glu  
 125 130 135  
 Leu Ile Lys Glu Ala Glu Ile Ile Gln Gly Ile Met Ala Leu Leu  
 140 145 150  
 Thr Arg Thr Leu Glu Glu Ala Ser Glu Gln Ile Arg Met Asn Arg  
 155 160 165  
 Ser Ala Lys Tyr Asn Leu Glu Lys Asp Leu Lys Asp Lys Phe Val  
 170 175 180  
 Ala Leu Thr Ile Asp Asp Ile Cys Phe Ser Leu Asn Asn Asn Ser  
 185 190 195  
 Pro Asn Ile Arg Tyr Ser Glu Asn Ala Val Arg Ile Glu Pro Asn  
 200 205 210  
 Ser Val Ser Leu Glu Asp Trp Leu Asp Phe Ser Ser Thr Asn Val  
 215 220 225  
 Glu Lys Ala Asp Lys Gln Arg Asn Asn Ser Leu Met Leu Lys Ala  
 230 235 240  
 Leu Val Asp Arg Ile Leu Ser Gln Thr Ala Asn Asp Leu Arg Lys  
 245 250 255  
 Gln Cys Asp Val Val Asp Thr Ala Phe Lys Asn Gly Leu Lys Asp  
 260 265 270  
 Thr Lys Asp Ala Arg Asp Lys Leu Ala Asp His Leu Ala Lys Ile  
 275 280 285  
 Glu Gly Asn Phe Ser Pro Ser Ser Gly Arg Ala Glu Arg Ala Ala  
 290 295 300  
 Ser Gln Thr Ala Cys Pro Ala Gly Gly Asp Pro Gly Gln Arg Glu  
 305 310 315  
 His His Leu Tyr Arg Arg Ser Ala Val Tyr Ala Asp Glu Glu Ile  
 320 325 330  
 His Pro Thr Ser Gly Trp Gly Arg Pro Trp Gly Leu Gly Trp Gly

335

340

345

Pro Pro Pro

&lt;210&gt; 9

&lt;211&gt; 731

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2363327

&lt;400&gt; 9

Met	Gln	Val	Glu	Leu	Pro	Pro	Leu	Glu	Ile	Asn	Ser	Arg	Val	Ser	
1				5					10					15	
Leu	Lys	Val	Gly	Glu	Thr	Ile	Glu	Ser	Gly	Thr	Val	Ile	Phe	Cys	
				20					25					30	
Asp	Val	Leu	Pro	Gly	Lys	Glu	Ser	Leu	Gly	Tyr	Phe	Val	Gly	Val	
				35					40					45	
Asp	Met	Asp	Asn	Pro	Ile	Gly	Asn	Trp	Asp	Gly	Arg	Phe	Asp	Gly	
				50					55					60	
Val	Gln	Leu	Cys	Ser	Phe	Ala	Cys	Val	Glu	Ser	Thr	Ile	Leu	Leu	
				65					70					75	
His	Ile	Asn	Asp	Ile	Ile	Pro	Glu	Ser	Val	Thr	Gln	Glu	Arg	Arg	
				80					85					90	
Pro	Pro	Lys	Leu	Ala	Phe	Met	Ser	Arg	Gly	Val	Gly	Asp	Lys	Gly	
				95					100					105	
Ser	Ser	Ser	His	Asn	Lys	Pro	Lys	Ala	Thr	Gly	Ser	Thr	Ser	Asp	
				110					115					120	
Pro	Gly	Asn	Arg	Asn	Arg	Ser	Glu	Leu	Phe	Tyr	Thr	Leu	Asn	Gly	
				125					130					135	
Ser	Ser	Val	Asp	Ser	Gln	Pro	Gln	Ser	Lys	Ser	Lys	Asn	Thr	Trp	
				140					145					150	
Tyr	Ile	Asp	Glu	Val	Ala	Glu	Asp	Pro	Ala	Lys	Ser	Leu	Thr	Glu	
				155					160					165	
Ile	Ser	Thr	Asp	Phe	Asp	Arg	Ser	Ser	Pro	Pro	Leu	Gln	Pro	Pro	
				170					175					180	
Pro	Val	Asn	Ser	Leu	Thr	Thr	Glu	Asn	Arg	Phe	His	Ser	Leu	Pro	
				185					190					195	
Phe	Ser	Leu	Thr	Lys	Met	Pro	Asn	Thr	Asn	Gly	Ser	Ile	Gly	His	
				200					205					210	
Ser	Pro	Leu	Ser	Leu	Ser	Ala	Gln	Ser	Val	Met	Glu	Glu	Leu	Asn	
				215					220					225	
Thr	Ala	Pro	Val	Gln	Glu	Ser	Pro	Pro	Leu	Ala	Met	Pro	Pro	Gly	
				230					235					240	
Asn	Ser	His	Gly	Leu	Glu	Val	Gly	Ser	Leu	Ala	Glu	Val	Lys	Glu	
				245					250					255	
Asn	Pro	Pro	Phe	Tyr	Gly	Val	Ile	Arg	Trp	Ile	Gly	Gln	Pro	Pro	
				260					265					270	
Gly	Leu	Asn	Glu	Val	Leu	Ala	Gly	Leu	Glu	Leu	Glu	Asp	Glu	Cys	
				275					280					285	
Ala	Gly	Cys	Thr	Asp	Gly	Thr	Phe	Arg	Gly	Thr	Arg	Tyr	Phe	Thr	
				290					295					300	
Cys	Ala	Leu	Lys	Lys	Ala	Leu	Phe	Val	Lys	Leu	Lys	Ser	Cys	Arg	

Pro Asp Ser Arg	305	310	315
Phe Ala Ser Leu Gln		Pro Val Ser Asn Gln	Ile
	320	325	330
Glu Arg Cys Asn		Gly Tyr Leu Ser Glu	Val
	335	340	345
Val Glu Glu Asn		Glu Lys Glu Gly Leu	Glu
	350	355	360
Ile Met Ile Gly		Gln Gly His Tyr Asn	Ser
	365	370	375
Cys Tyr Leu Asp		Leu Phe Ala Phe Ser	Ser
	380	385	390
Val Leu Asp Thr		Val Leu Leu Arg Pro	Lys Glu Lys Asn Asp
	395	400	405
Glu Tyr Tyr Ser		Glu Thr Gln Glu Leu	Leu Arg Thr Glu Ile
	410	415	420
Asn Pro Leu Arg		Ile Tyr Gly Tyr Val	Cys Ala Thr Lys Ile
	425	430	435
Lys Leu Arg Lys		Ile Leu Glu Lys Val	Glu Ala Ala Ser Gly
	440	445	450
Thr Ser Glu Glu		Lys Asp Pro Glu Glu	Phe Leu Asn Ile Leu
	455	460	465
His His Ile Leu		Arg Val Glu Pro Leu	Leu Lys Ile Arg Ser
	470	475	480
Gly Gln Lys Val		Gln Asp Cys Tyr Phe	Tyr Gln Ile Phe Met
	485	490	495
Lys Asn Glu Lys		Val Gly Val Pro Thr	Ile Gln Gln Leu Leu
	500	505	510
Trp Ser Phe Ile		Asn Ser Asn Leu Lys	Phe Ala Glu Ala Pro
	515	520	525
Cys Leu Ile Ile		Gln Met Pro Arg Phe	Gly Lys Asp Phe Lys
	530	535	540
Phe Lys Lys Ile		Phe Pro Ser Leu Glu	Leu Asn Ile Thr Asp
	545	550	555
Leu Glu Asp Thr		Pro Arg Gln Cys Arg	Ile Cys Gly Gly Leu
	560	565	570
Met Tyr Glu Cys		Arg Glu Cys Tyr Asp	Asp Pro Asp Ile Ser
	575	580	585
Gly Lys Ile Lys		Gln Phe Cys Lys Thr	Cys Asn Thr Gln Val
	590	595	600
Leu His Pro Lys		Arg Leu Asn His Lys	Tyr Asn Pro Val Ser
	605	610	615
Pro Lys Asp Leu		Pro Asp Trp Asp Trp	Arg His Gly Cys Ile
	620	625	630
Cys Gln Asn Met		Glu Leu Phe Ala Val	Leu Cys Ile Glu Thr
	635	640	645
His Tyr Val Ala		Phe Val Lys Tyr Gly	Lys Asp Asp Ser Ala
	650	655	660
Leu Phe Phe Asp		Ser Met Ala Asp Arg	Asp Gly Gly Gln Asn
	665	670	675
Phe Asn Ile Pro		Gln Val Thr Pro Cys	Pro Glu Val Gly Glu
	680	685	690
Leu Lys Met Ser		Leu Glu Asp Leu His	Ser Leu Asp Ser Arg
	695	700	705
Ile Gln Gly Cys		Ala Arg Arg Leu Leu	Cys Asp Ala Tyr Met
	710	715	720

Met Tyr Gln Ser Pro Thr Met Ser Leu Tyr Lys  
 725 730

<210> 10  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2508327

<400> 10  
 Met Pro Pro Pro Gln Lys Ile Pro Ser Val Arg Pro Phe Lys Gln  
 1 5 10 15  
 Arg Lys Ser Leu Ala Ile Arg Gln Glu Glu Val Ala Gly Ile Arg  
 20 25 30  
 Ala Lys Phe Pro Asn Lys Ile Pro Val Val Val Glu Arg Tyr Pro  
 35 40 45  
 Arg Glu Thr Phe Leu Pro Pro Leu Asp Lys Thr Lys Phe Leu Val  
 50 55 60  
 Pro Gln Glu Leu Thr Met Thr Gln Phe Leu Ser Ile Ile Arg Ser  
 65 70 75  
 Arg Met Val Leu Arg Ala Thr Glu Ala Phe Tyr Leu Leu Val Asn  
 80 85 90  
 Asn Lys Ser Leu Val Ser Met Ser Ala Thr Met Ala Glu Ile Tyr  
 95 100 105  
 Arg Asp Tyr Lys Asp Glu Asp Gly Phe Val Tyr Met Thr Tyr Ala  
 110 115 120  
 Ser Gln Glu Thr Phe Gly Cys Leu Glu Ser Ala Ala Pro Arg Asp  
 125 130 135  
 Gly Ser Ser Leu Glu Asp Arg Pro Cys Asn Pro Leu  
 140 145

<210> 11  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2524555

<400> 11  
 Met Pro Asn Cys Arg Glu Ser Ser Phe Ser Ser Ala Thr Met Ser  
 1 5 10 15  
 Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys  
 20 25 30  
 Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys  
 35 40 45  
 Glu Thr Ile Glu Gln Glu Lys Gln Ala Gly Glu Ser  
 50 55



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<220>  
<221> misc_feature  
<223> Incyte ID No: 2900717
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<400> 12														
Met	Glu	Val	Thr	Thr	Arg	Leu	Thr	Trp	Asn	Asp	Glu	Asn	His	Leu
1				5					10					15
Arg	Lys	Leu	Leu	Gly	Asn	Val	Ser	Leu	Ser	Leu	Leu	Tyr	Lys	Ser
				20					25					30
Ser	Val	His	Gly	Gly	Ser	Ile	Glu	Asp	Met	Val	Glu	Arg	Cys	Ser
				35					40					45
Arg	Gln	Gly	Cys	Thr	Ile	Thr	Met	Ala	Tyr	Ile	Asp	Tyr	Asn	Met
				50					55					60
Ile	Val	Ala	Phe	Met	Leu	Gly	Asn	Tyr	Ile	Asn	Leu	Arg	Glu	Ser
				65					70					75
Ser	Thr	Glu	Pro	Asn	Asp	Ser	Leu	Trp	Phe	Ser	Leu	Gln	Lys	Lys
				80					85					90
Asn	Asp	Thr	Thr	Glu	Ile	Glu	Thr	Leu	Leu	Leu	Asn	Thr	Ala	Pro
				95					100					105
Lys	Ile	Ile	Asp	Glu	Gln	Leu	Val	Cys	Arg	Leu	Ser	Lys	Thr	Asp
				110					115					120
Ile	Phe	Ile	Ile	Cys	Arg	Asp	Asn	Lys	Ile	Tyr	Leu	Asp	Lys	Met
				125					130					135
Ile	Thr	Arg	Asn	Leu	Lys	Leu	Arg	Phe	Tyr	Gly	His	Arg	Gln	Tyr
				140					145					150
Leu	Glu	Cys	Glu	Val	Phe	Arg	Val	Glu	Gly	Ile	Lys	Asp	Asn	Leu
				155					160					165
Asp	Asp	Ile	Lys	Arg	Ile	Ile	Lys	Ala	Arg	Glu	His	Arg	Asn	Arg
				170					175					180
Leu	Leu	Ala	Asp	Ile	Arg	Asp	Tyr	Arg	Pro	Tyr	Ala	Asp	Leu	Val
				185					190					195
Ser	Glu	Ile	Arg	Ile	Leu	Leu	Val	Gly	Pro	Val	Gly	Ser	Gly	Lys
				200					205					210
Ser	Ser	Phe	Phe	Asn	Ser	Val	Lys	Ser	Ile	Phe	His	Gly	His	Val
				215					220					225
Thr	Gly	Gln	Ala	Val	Val	Gly	Ser	Asp	Thr	Thr	Ser	Ile	Thr	Glu
				230					235					240
Arg	Tyr	Arg	Ile	Tyr	Ser	Val	Lys	Asp	Gly	Lys	Asn	Gly	Lys	Ser
				245					250					255
Leu	Pro	Phe	Met	Leu	Cys	Asp	Thr	Met	Gly	Leu	Asp	Gly	Ala	Glu
				260					265					270
Gly	Ala	Gly	Leu	Cys	Met	Asp	Asp	Ile	Pro	His	Ile	Leu	Lys	Gly
				275					280					285
Cys	Met	Pro	Asp	Arg	Tyr	Gln	Phe	Asn	Ser	Arg	Lys	Pro	Ile	Thr
				290					295					300
Pro	Glu	His	Ser	Thr	Phe	Ile	Thr	Ser	Pro	Ser	Leu	Lys	Asp	Arg
				305					310					315
Ile	His	Cys	Val	Ala	Tyr	Val	Leu	Asp	Ile	Asn	Ser	Ile	Asp	Asn
				320					325					330
Leu	Tyr	Ser	Lys	Met	Leu	Ala	Lys	Val	Lys					

	335		340		345
Val Leu Asn Cys Gly	Ile Ala Tyr Val	Ala Leu Leu Thr Lys	Val		
	350		355		360
Asp Asp Cys Ser Glu	Val Leu Gln Asp	Asn Phe Leu Asn Met	Ser		
	365		370		375
Arg Ser Met Thr Ser	Gln Ser Arg Val	Met Asn Val His Lys	Met		
	380		385		390
Leu Gly Ile Pro Ile	Ser Asn Ile Leu	Met Val Gly Asn Tyr	Ala		
	395		400		405
Ser Asp Leu Glu Leu	Asp Pro Met Lys	Asp Ile Leu Ile Leu	Ser		
	410		415		420
Ala Leu Arg Gln Met	Leu Arg Ala Ala	Asp Asp Phe Leu Glu	Asp		
	425		430		435
Leu Pro Leu Glu Glu	Thr Gly Ala Ile	Glu Arg Ala Leu Gln	Pro		
	440		445		450
Cys Ile					

&lt;210&gt; 13

&lt;211&gt; 281

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3088904

&lt;400&gt; 13

Met Asp Ala Ile Lys	Lys Lys Met Gln	Met Leu Lys Glu Asn	Ala
1	5	10	15
Ile Asp Arg Ala Glu	Gln Ala Glu Ala	Asp Lys Lys Gln Ala	Glu
	20	25	30
Asp Arg Cys Lys Gln	Leu Glu Glu Glu	Gln Gln Ala Leu Gln	Lys
	35	40	45
Lys Leu Lys Gly Thr	Glu Asp Glu Val	Glu Lys Tyr Ser Glu	Ser
	50	55	60
Val Lys Glu Ala Gln	Glu Lys Leu Glu	Gln Ala Glu Lys Lys	Ala
	65	70	75
Thr Asp Ala Glu Ala	Asp Val Ala Ser	Leu Asn Arg Arg Ile	Gln
	80	85	90
Leu Val Glu Glu Glu	Leu Asp Arg Ala	Gln Glu Arg Leu Ala	Thr
	95	100	105
Ala Leu Gln Lys Leu	Glu Glu Ala Glu	Lys Ala Ala Asp Glu	Ser
	110	115	120
Glu Arg Gly Met Lys	Val Ile Glu Asn	Arg Ala Met Lys Asp	Glu
	125	130	135
Glu Lys Met Glu Leu	Gln Glu Met Gln	Leu Lys Glu Ala Lys	His
	140	145	150
Ile Ala Glu Asp Ser	Asp Arg Lys Tyr	Glu Glu Val Ala Arg	Lys
	155	160	165
Leu Val Ile Leu Glu	Gly Glu Leu Glu	Arg Ser Glu Glu Arg	Ala
	170	175	180
Glu Val Ala Glu Ser	Arg Ala Arg Gln	Leu Glu Glu Glu Leu	Arg
	185	190	195
Thr Met Asp Gln Ala	Leu Lys Ser Leu	Met Ala Ser Glu Glu	Glu

	200		205		210
Tyr Ser Thr Lys	Glu Asp Lys Tyr Glu	Glu Glu Ile Lys Leu	Leu		
	215		220		225
Glu Glu Lys Leu	Lys Glu Ala Glu Thr	Arg Ala Glu Phe Ala	Glu		
	230		235		240
Arg Ser Val Ala	Lys Leu Glu Lys Thr	Ile Asp Asp Leu Glu	Glu		
	245		250		255
Thr Leu Ala Ser	Ala Lys Glu Glu Asn	Val Glu Ile His Gln	Thr		
	260		265		270
Leu Asp Gln Thr	Leu Leu Glu Leu Asn	Asn Leu			
	275		280		

&lt;210&gt; 14

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3745193

&lt;400&gt; 14

Met Asp Glu Gln Ile	Arg Leu Met Asp Gln	Asn Leu Lys Cys	Leu		
1	5	10	15		
Ser Ala Ala Glu Glu	Lys Tyr Ser Gln Lys	Glu Asp Lys Cys	Glu		
	20	25	30		
Glu Glu Met Lys Ile	Leu Thr Asp Asn Leu	Lys Glu Ala Glu	Thr		
	35	40	45		
His Ala Glu Leu Ala	Glu Arg Ser Val Ala	Lys Leu Glu Lys	Thr		
	50	55	60		
Ile Asp Asp Leu Glu	Asp Lys Leu Lys Cys	Thr Lys Glu Glu	His		
	65	70	75		
Leu Cys Thr Gln Arg	Met Leu Asp Gln Thr	Leu Leu Asp Leu	Asn		
	80	85	90		

Glu Met

&lt;210&gt; 15

&lt;211&gt; 448

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3822123

&lt;400&gt; 15

Met Arg Glu Cys Ile	Ser Val His Val Gly	Gln Ala Gly Val	Gln		
1	5	10	15		
Ile Gly Asn Ala Cys	Trp Glu Leu Phe Cys	Leu Glu His Gly	Ile		
	20	25	30		
Gln Ala Asp Gly Thr	Phe Asp Ala Gln Ala	Ser Lys Ile Asn	Asp		
	35	40	45		
Asp Asp Ser Phe Thr	Thr Phe Phe Ser Glu	Thr Gly Asn Gly	Lys		

	50		55		60
His Val Pro Arg	Ala Val Met Ile Asp	Leu Glu Pro Thr Val Val			
	65		70		75
Asp Glu Val Arg	Ala Gly Thr Tyr Arg	Gln Leu Phe His Pro Glu			
	80		85		90
Gln Leu Ile Thr	Gly Lys Glu Asp Ala	Ala Asn Asn Tyr Ala Arg			
	95		100		105
Gly His Tyr Thr	Val Gly Lys Glu Ser	Ile Asp Leu Val Leu Asp			
	110		115		120
Arg Ile Arg Lys	Leu Thr Asp Ala Cys	Ser Gly Leu Gln Gly Phe			
	125		130		135
Leu Ile Phe His	Ser Phe Gly Gly Gly	Thr Gly Ser Gly Phe Thr			
	140		145		150
Ser Leu Leu Met	Glu Arg Leu Ser Leu	Asp Tyr Gly Lys Lys Ser			
	155		160		165
Lys Leu Glu Phe	Ser Ile Tyr Pro Ala	Pro Gln Val Ser Thr Ala			
	170		175		180
Val Val Glu Pro	Tyr Asn Ser Tyr Leu	Thr Thr His Thr Thr Leu			
	185		190		195
Glu His Ser Asp	Cys Ala Phe Met Val	Asp Asn Glu Ala Ile Tyr			
	200		205		210
Asp Ile Cys Arg	Arg Asn Leu Asp Ile	Glu Arg Pro Thr Tyr Thr			
	215		220		225
Asn Leu Asn Arg	Leu Ile Ser Gln Ile	Val Ser Ser Ile Thr Ala			
	230		235		240
Ser Leu Arg Phe	Asp Gly Ala Leu Asn	Val Asp Leu Thr Glu Phe			
	245		250		255
Gln Thr Asn Leu	Val Pro Tyr Pro Arg	Ile His Phe Pro Leu Ala			
	260		265		270
Thr Tyr Ala Pro	Val Ile Ser Ala Glu	Lys Ala Tyr His Glu Gln			
	275		280		285
Leu Ser Val Ala	Glu Ile Thr Asn Ala	Cys Phe Glu Pro Ala Asn			
	290		295		300
Gln Met Val Lys	Cys Asp Pro Arg His	Gly Lys Tyr Met Ala Cys			
	305		310		315
Cys Leu Leu Tyr	Arg Gly Asp Val Val	Pro Lys Asp Val Asn Ala			
	320		325		330
Ala Ile Ala Ala	Ile Lys Thr Lys Arg	Ser Ile Gln Phe Val Asp			
	335		340		345
Trp Cys Pro Thr	Gly Phe Lys Val Gly	Ile Asn Tyr Gln Pro Pro			
	350		355		360
Thr Val Val Pro	Gly Gly Asp Leu Ala	Lys Val Gln Arg Ala Val			
	365		370		375
Cys Met Leu Ser	Asn Thr Thr Ala Ile	Ala Glu Ala Trp Ala Arg			
	380		385		390
Leu Asp His Lys	Phe Asp Leu Met Tyr	Ala Lys Arg Ala Phe Val			
	395		400		405
His Trp Tyr Val	Gly Glu Gly Met Glu	Glu Gly Glu Phe Ser Glu			
	410		415		420
Ala Arg Glu Asp	Met Ala Ala Leu Glu	Lys Asp Tyr Glu Glu Val			
	425		430		435
Gly Ile Asp Ser	Tyr Glu Asp Glu Asp	Glu Gly Glu Glu			
	440		445		

<210> 16  
 <211> 269  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 4217506

<400> 16  
 Met Ser Asp Glu Glu Val Glu Gln Val Glu Glu Gln Tyr Glu Glu  
 1 5 10 15  
 Glu Glu Glu Ala His Glu Glu Ala Ala Glu Val His Glu Glu Val  
 20 25 30  
 His Glu Pro Glu Glu Val Gln Glu Asp Thr Ala Glu Glu Asp Ala  
 35 40 45  
 Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile Pro  
 50 55 60  
 Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln  
 65 70 75  
 Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe  
 80 85 90  
 Glu Ala Arg Lys Lys Glu Glu Glu Glu Leu Val Ala Leu Lys Glu  
 95 100 105  
 Arg Ile Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile  
 110 115 120  
 Arg Ala Glu Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu  
 125 130 135  
 Lys Ala Arg Arg Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp  
 140 145 150  
 Asp Leu Lys Lys Lys Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr  
 155 160 165  
 Ser Ser Tyr Leu Ala Lys Ala Asp Gln Lys Arg Gly Lys Lys Gln  
 170 175 180  
 Thr Ala Arg Glu Met Lys Lys Lys Ile Leu Ala Glu Arg Arg Lys  
 185 190 195  
 Pro Leu Asn Ile Asp His Leu Gly Glu Asp Lys Leu Arg Asp Lys  
 200 205 210  
 Ala Lys Glu Leu Trp Glu Thr Leu His Gln Leu Glu Ile Asp Lys  
 215 220 225  
 Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln Lys Tyr Asp Ile Thr  
 230 235 240  
 Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys His Ser Lys Lys  
 245 250 255  
 Ala Gly Thr Pro Ala Lys Gly Lys Val Gly Gly Arg Trp Lys  
 260 265

<210> 17  
 <211> 3620  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

&lt;223&gt; Incyte ID No: 1285395

&lt;400&gt; 17

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ctgtggccat	gactactgaa	gtaggctctg	tgtctgaagt	gaagaaggac	tctagccagt	120
taggaacaga	tgcaaccaag	gaaaaaccta	agaagtagc	agaaaatcag	cagaatcagt	180
cttccgatcc	agaggaggaa	aaaggttccc	agccacctcc	tgcaagctgaa	agccaaagta	240
gtctacgccg	ccagaagaga	gagaaggaaa	catcgagag	caggggtatt	tctcggttca	300
taccgccatg	gcttaagaag	caaaagtcac	ataccttagt	agtggccaaa	gatggaggag	360
ataaaaaaga	gcctacccaa	gctgttgttg	aagaacaggt	cttagataaa	gaggaacccc	420
ttccagaaga	acagagacag	gctaaggggtg	atgctgaaga	aatggctcag	aagaaacaag	480
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<221> misc\_feature

<223> Incyte ID No: 1259001



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<211> 1020

<212> DNA



<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3088904

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<211> 1120

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<223> Incyte ID No: 3745193

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 <211> 1471  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3822123

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 <211> 1079  
 <212> DNA  
 <213> Homo sapiens

<220>  
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